

New York State Department of Transportation

Yellow Flag NB22CTW020

By: Rehan Afridi

Flag Date: April 29, 2022

Superseding Information:

This flag supersedes: YF NB2122W021

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: April 29, 2022 10:00:00 AM

Of: NYSDOT Region 11

Signature Information

Signature: Rehan Afridi, P.E. 075185

Date: May 11, 2022

Reviewed By: Robert Kemp

Date: May 11, 2022

Attachments: 10

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 230			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

Flagged Condition Description

This Yellow Flag No. NB22CTW020 supersedes previously issued Yellow Flag No. NB2122W021.

Location: Span 230, Girder G19 at Pier 229.

Description: The right side connection angle at Girder G19 connection to the pier cap at Pier 229 exhibits a 4-3/4" (previously 3-1/2") long vertical corrosion crack x 1/2" wide (no change) at the lower fillet section. The upper fillet section has a 5" long (previously 2") vertical corrosion crack x 1/4" wide (previously 1/8"). In addition, the vertical stiffener connection angle is heavily corroded and exhibits a 3-1/2"W x 2-1/2"H (previously 3-1/4"W x 2-1/2"H) corrosion hole at the base and a 4"W x 3"H L-shaped corrosion hole (no change) with a 1-1/2" long corrosion crack (not previously noted) adjacent to the lower cope of G19 with 50% section loss in the surrounding area.

Notes:

- 1.The affected member, Girder G19 is a load path redundant steel girder consisting of a web depth of 21.30" inches and thickness of 0.608 inches and is located under the deck in the roadway, approximately 12" off the edge of curb line/safety walk.
- 2.The adjacent Girder (left) G18, is 5'-5" on center, has repair plates and is in fair condition.
- 3.The adjacent Stringer (right) S2, approximately 24" on center, acts as a support for the railing and curb area above and exhibits a 11"L x 2"W corrosion hole at the left side bottom flange angle. An additional 3' length of the bottom flange has corrosion with delamination and up to 1/8" section loss. These conditions are the same as reported in the last inspection.
- 4.A double lane closure on 3rd Avenue Eastbound with a 35' bucket truck is required to access the flagged location.

Flag Photographs

Photo Number: 1

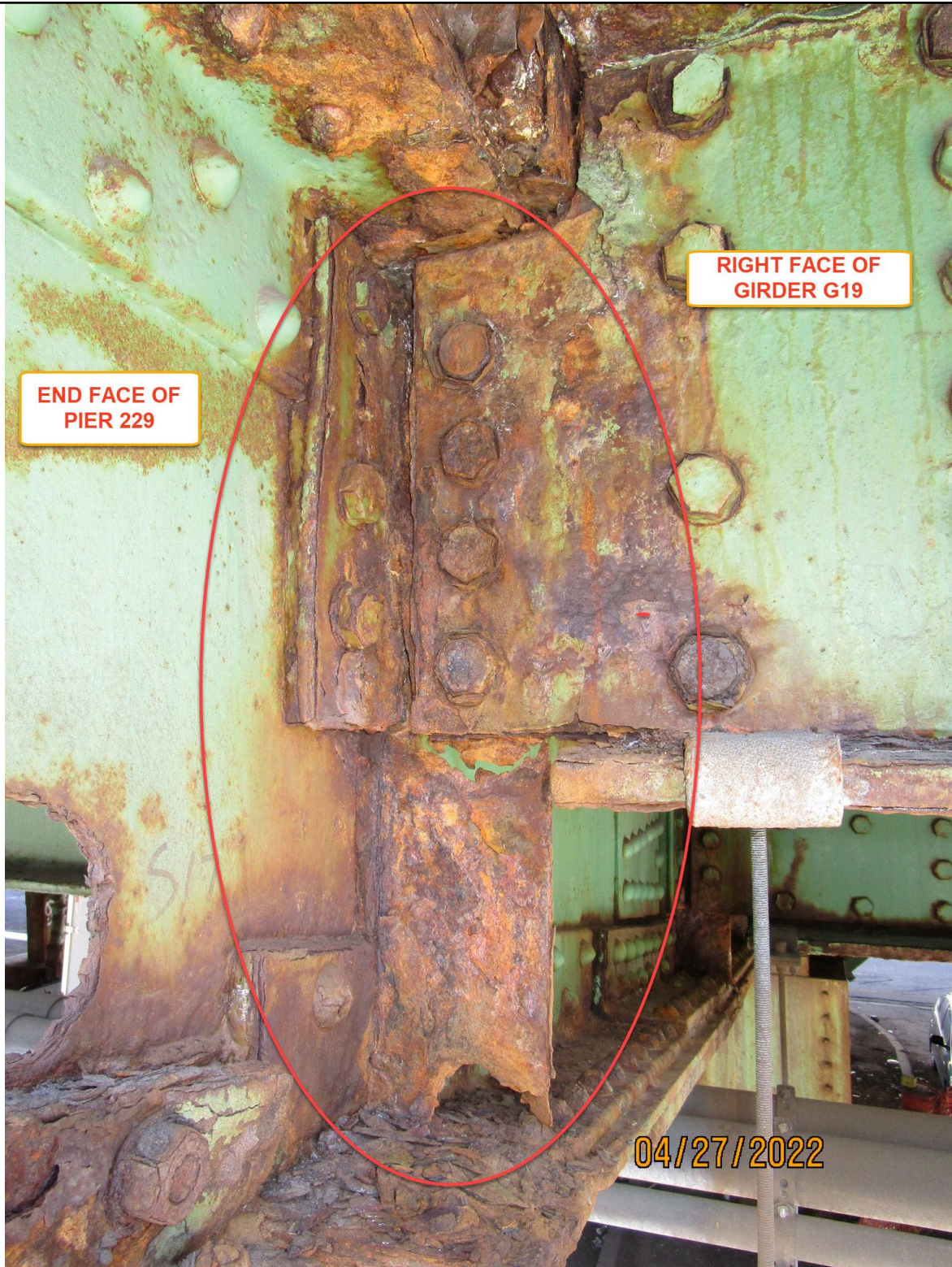
Photo Filename: Photo 1-RA 621 _1021.jpg



Attachment Description: Span 230, Girder G19 at Pier 229: General View of Framing at Flagged Location. Looking Begin.

Photo Number: 2

Photo Filename: Photo 2-RA 621_ 0999.jpg



Attachment Description: Span 230, Girder G19 at Pier 229: General view of flag location. Looking Begin Left.

Photo Number: 3

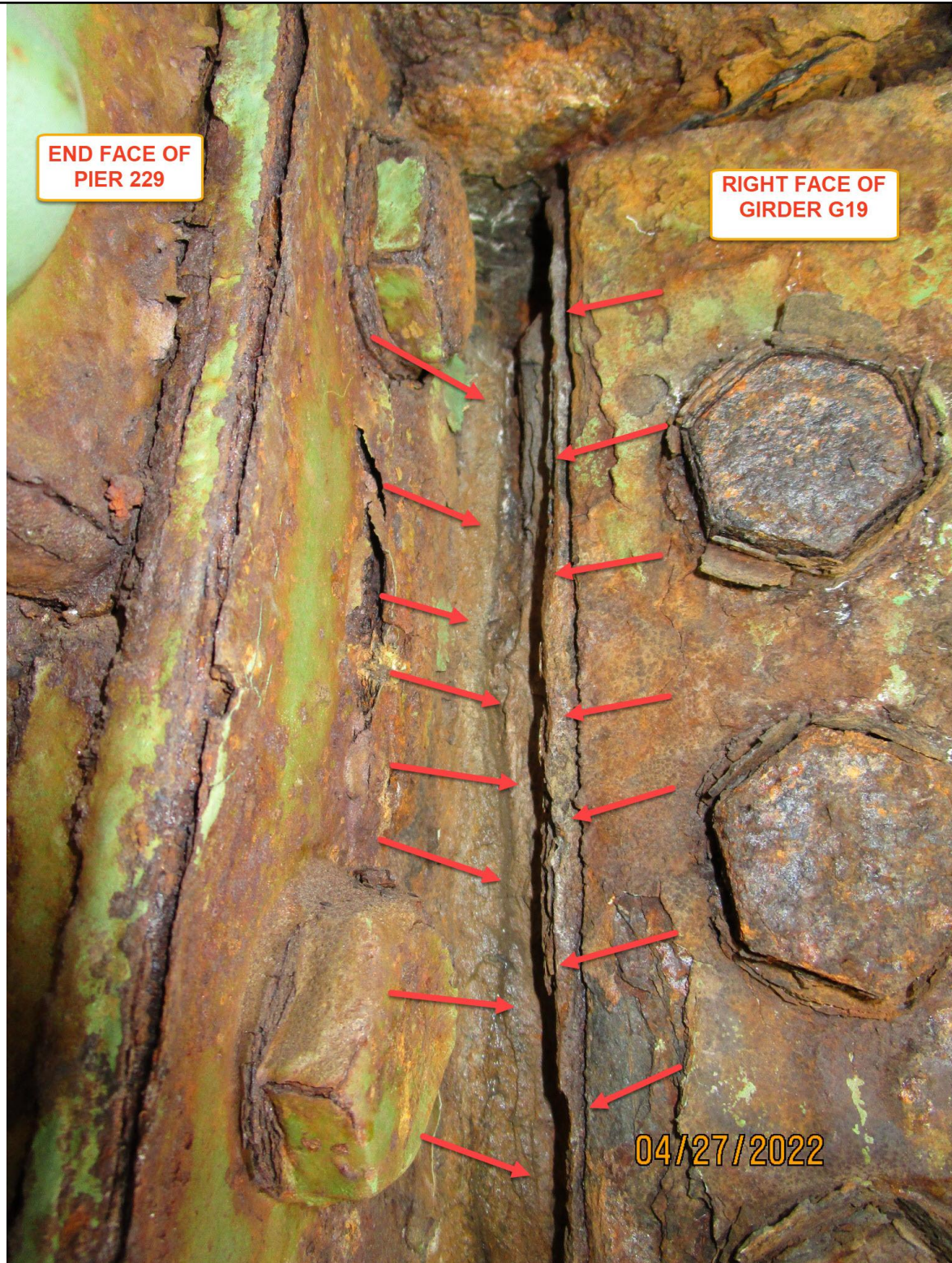
Photo Filename: Photo 3-RA 621_1006.jpg



Attachment Description: Span 230, Girder G19 at Pier 229: A vertical corrosion crack measuring 4-3/4"L x 1/2"W is located in the lower section of the right connection angle and 4"W x 3"H L-shaped corrosion hole in the left vertical stiffener connection angle. Looking Left.

Photo Number: 4

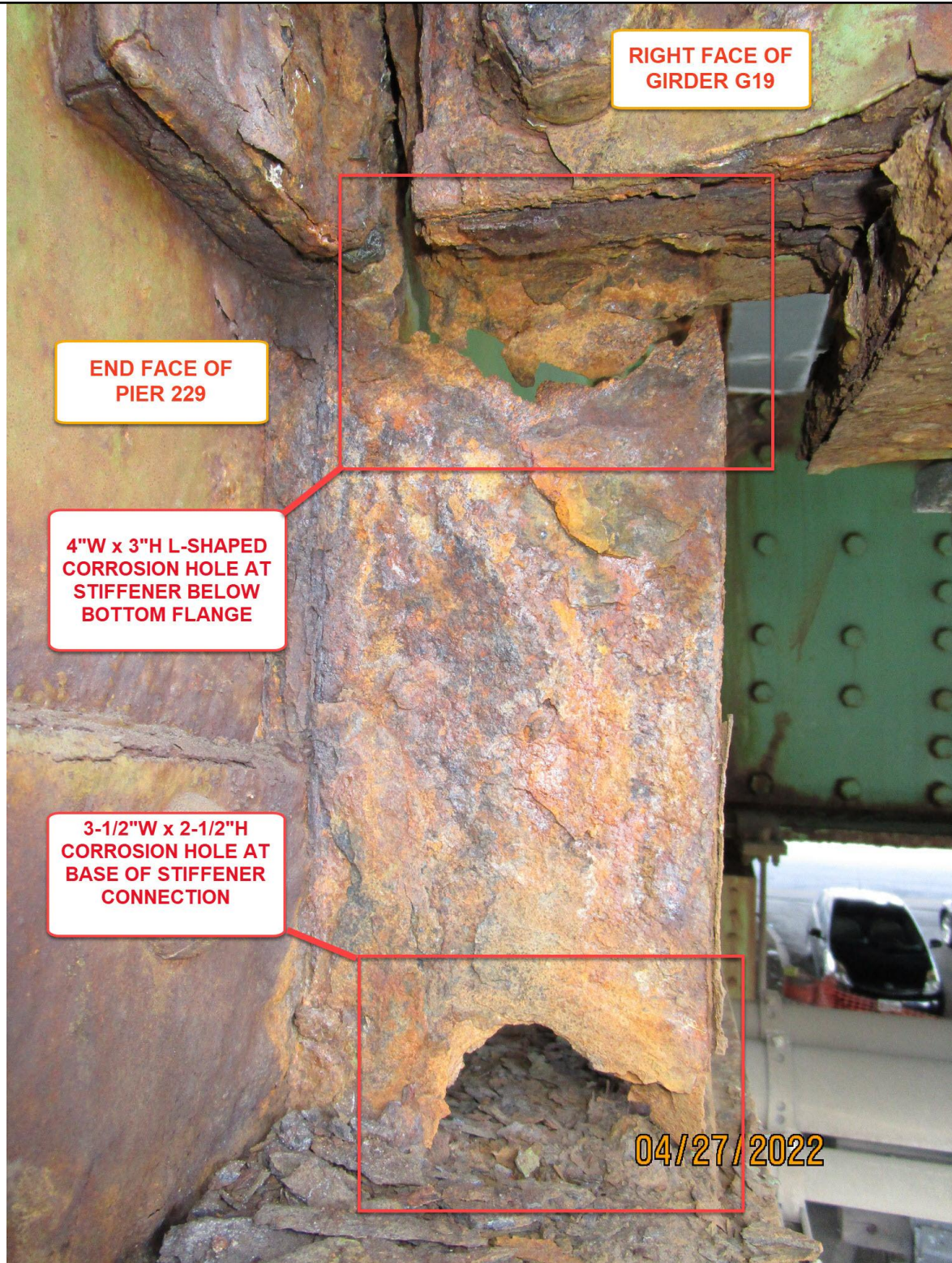
Photo Filename: Photo 4-RA 621_1012.jpg



Attachment Description: Span 230 Girder G19 at Pier 229: A vertical corrosion crack measuring 5" L x 1/4" W is located in the upper section of the right connection angle. Looking Left.

Photo Number: 5

Photo Filename: Photo 5-RA 621_1005.jpg



Attachment Description: Span 230, Girder G19 at Pier 229: Two corrosion holes at stiffener connection angle with up to 50% section loss in surrounding area. Looking Left.

Photo Number: 6

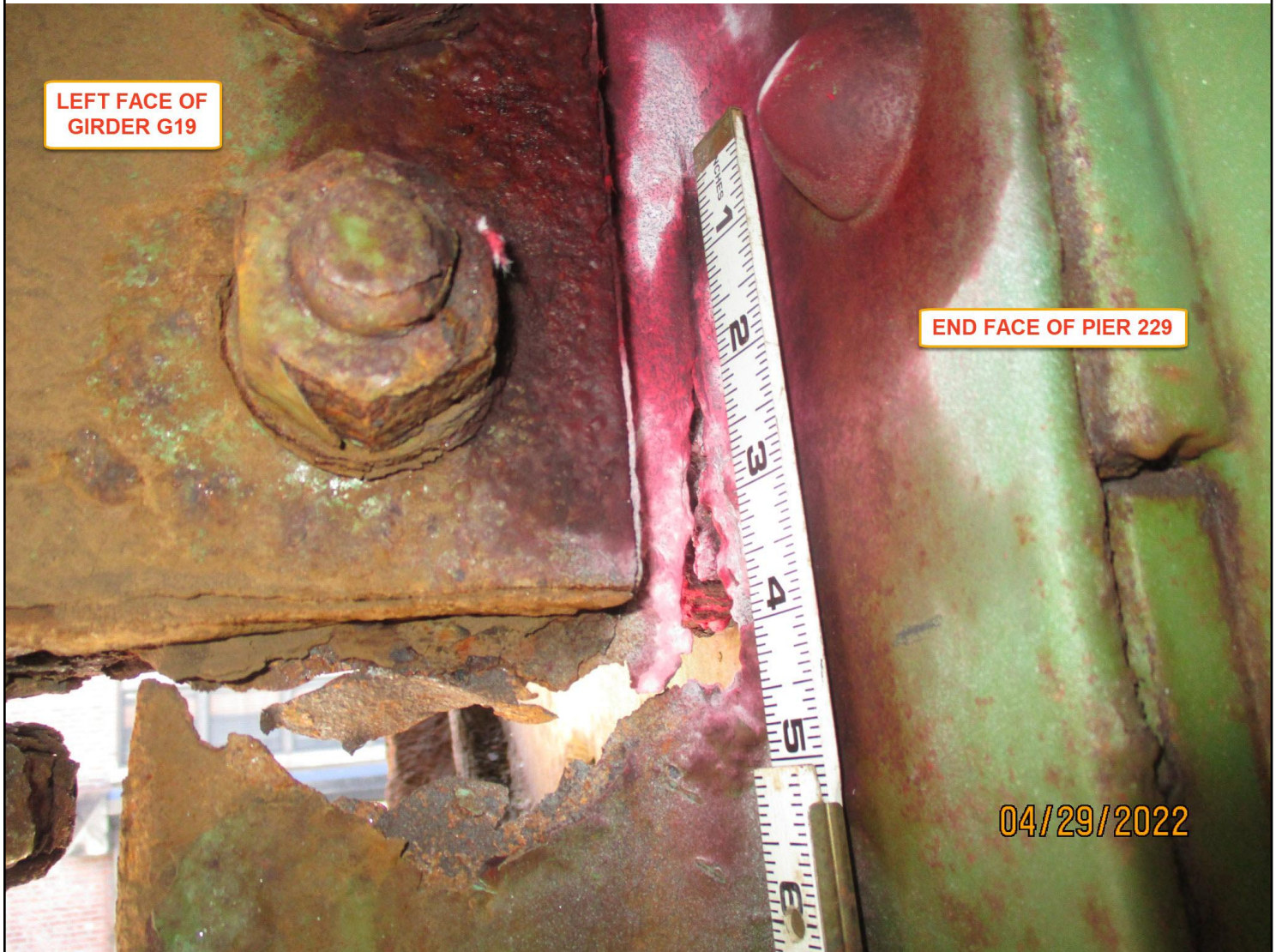
Photo Filename: Photo 6-RA 621_1001.jpg



Attachment Description: Span 230, Girder G19 at Pier 229: A 4"W x 3"H L-shaped corrosion hole located at stiffener connection angle with a 1-1/2"L corrosion crack and up to 50% section loss in surrounding area. Looking Right.

Photo Number: 7

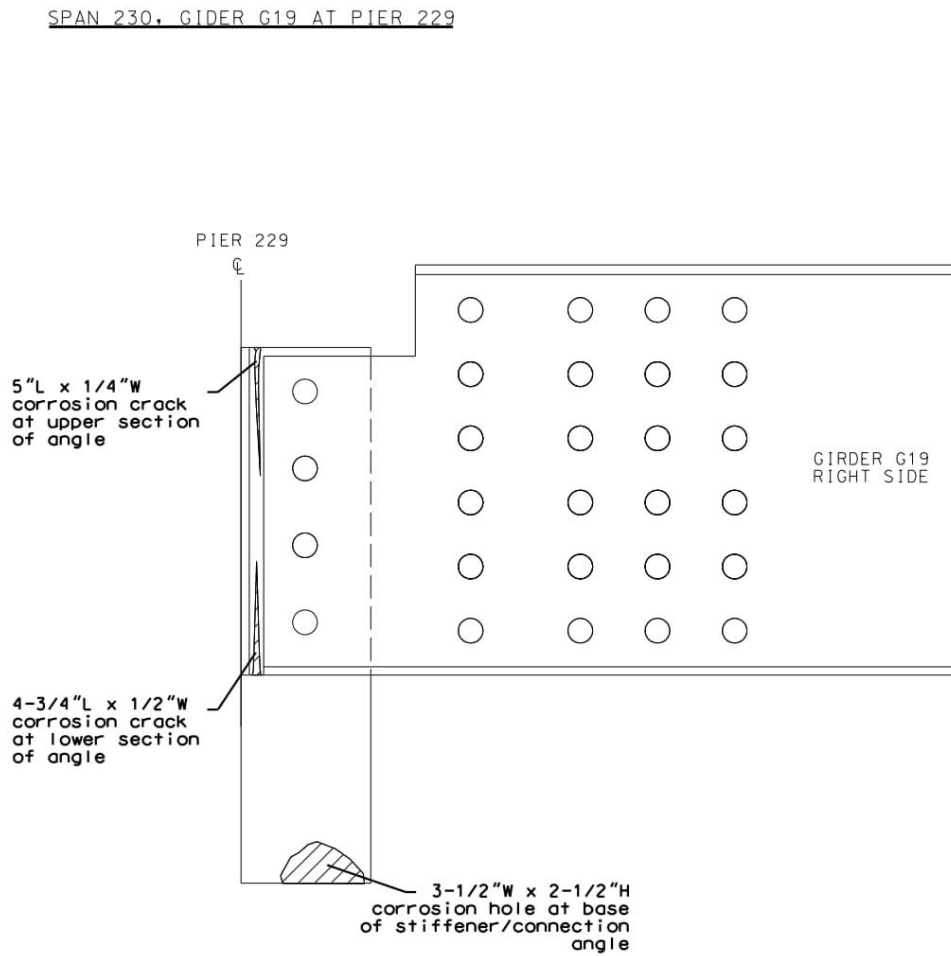
Photo Filename: Photo 7-RA 621_5086.jpg



Attachment Description: Span 230, Girder G19 at Pier 229: Close-up view of the 4"W x 3"H L-shaped corrosion hole located at stiffener connection angle with 1-1/2" corrosion crack, and up to 50% section loss in surrounding area, after a dye penetrant test. Looking Right.

Photo Number: 8

Photo Filename: Right Face - Span 230 G19 at Pier 229.jpg



RIGHT SIDE OF GIRDER G19 AT PIER 229
SCALE: N.T.S

Attachment Description: Right Face - Span 230 G19 at Pier 229

Photo Number: 9

Photo Filename: Left Face - Span 230 G19 at Pier 229.jpg

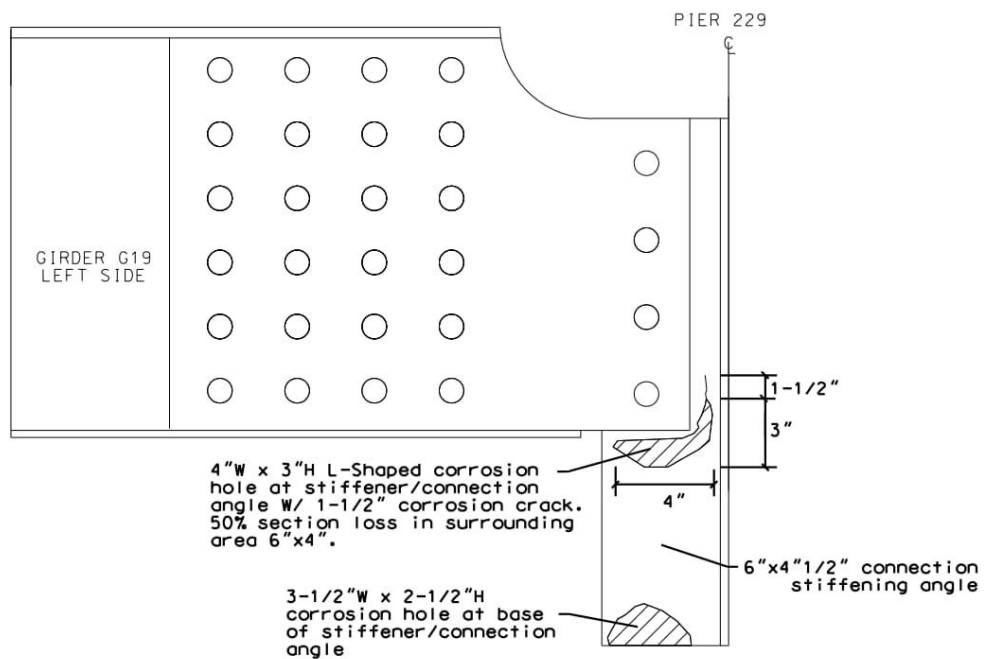
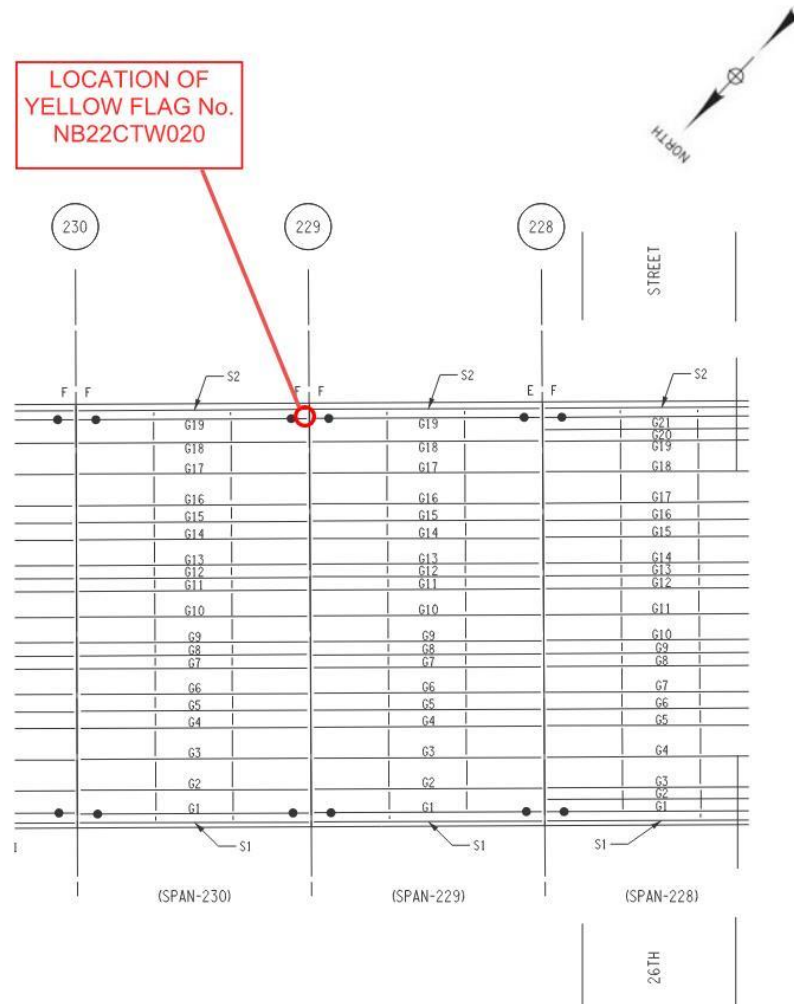
SPAN 230, GIDER G19 AT PIER 229**Attachment Description: Left Face - Span 230 G19 at Pier 229**

Photo Number: 10

Photo Filename: Framing Plan.jpg



Attachment Description: Span 230, Girder G19 at Pier 229 - Framing Plan